		ATTY. DOCKET NO. SIRF. POD S.US.C 2	SERIAL NO	- 0.140t y é	Tare	igvied	
INE	ORMATION DISCLOSU	De citation	APPLICANT Charles P. Norman		<del></del> .•	A	
·	(Use Several Sheets if Nece		FILING DATE HEREWITH	GROUP	26341	Para	ent)
		U.S. PATENT	DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS		NG DATE PLICABLE
ðv.	Des. 314,713	02/19/91	Ciranny et al				
	Des. 314,963	02/26/91	Best et al	·			
	Des. 343,383	01/18/94	Hall et al				
	Des. 344,942	03/08/94	Gilman et al				
	Des. 346,170	04/19/94	Tang				
	Des. 347,436	05/31/94	Tang				
·	Des. 354,451	01/17/95	Burrell et al				
Bv.	Des. 354,452	01/17/95	Burrell et al.				
· .		FOREIGN PATE	NT DOCUMENTS				
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN	SLATION
DV.	0 501 828 A1	09/22/92	EPO				
	0 501 829 A1	09/02/92	EPO				
	0 511 741 A1	11/04/92	EPO				·
	2 712 095	05/12/95	France				
dv.	0 436 854 A2	07/17/91	EPO				
	ОТНЕ	R DOCUMENTS (Including A	Author, Title, Date, Pertinent Pages, Etc.)				
JV.	"Minimum Probabilit Transactions on Infor	y of Error for Asynchronou mation Theory, Vol. IT-32,	us Gaussian Multiple-Access Chann , No. 1, January 1986	els," by	Sergio V	erdu for	IEEE
·W.	"An Adaptive Canceller of Cochannel Interference for Spread Spectrum Multiple Access Commission Naturally						
Dr.	"Improved Parallel Interference Cancellation for CDMA," by Dariush Divsalar, et al. for IEEE Transactions on Communications, Vol. 46, No. 2, February 1998						
EXAMINER	Div		DATE CONSIDERED 8/9/05				
EXAMINER Inicommunication with applic	tial if reference considered, whether or no	t citation is in conformance with MPEP 609.	Draw line through citation if not in conformance and not	considered. In	clude copy of t	his form with	next

		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY, DOCKET NO. SIRP. PO35. US. C >	SERIAL NO	Hotye	Tascia	gvied
	man di miori Dioci col II	DE OUT ATION	APPLICANT Charles P. Norman e	t al.	·		
II	NFORMATION DISCLOSUI (Use Several Sheets if Necessi		FILING DATE HEREWITH	GROUP 2634 (Parent)		, (tw	
	•	U.S. PATENT	DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS		DATE JCABLE
DV.	Des. 361,569	08/22/95	Jervis ·				
	Des. 363,488	10/24/95	Shumaker				
	Des. 365,032	12/12/95	Laverick et al			·	
	Des. 365,292	12/19/95	Laverick et al		· ·,	·	
	4,203,071	05/13/80	Bowles et al				
	4,592,076	05/27/86	El-Banna		•		
	4,675,880	06/23/87	Davarian		_		
DV.	4,691,348	09/01/87	Braathen				
		FOREIGN PATE	NT DOCUMENTS				
	DOCUMENT NUMBER	DATE	. COUNTRY	CLASS	SUB CLASS	<del></del>	LATION
						YES	NO
ðv.	0 635 728 A1	01/25/95	EPO				· ·
DV.	0 689 034 A1	12/27/95	EPO				·
DV	WO 95/08779	03/30/95	PCT	ļ ·			
				ļ			
<u>·</u>				]			
	OTHE	R DOCUMENTS (Including	Author, Title, Date, Pertinent Pages, Etc.)				
		٠.					
					•		
			•				
·							·
EXAMINER.	Ann		DATE CONSIDERED 8/9/0	5			
EXAMINE Communication with		t citation is in conformance with MPEP 609.	Draw line through citation if not in conformance and not	considered. [	nclude copy of	dis form with	n next

·		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY, DOCKET NO. SIRF. POSS. US. C	SERIAL NO	Not ye	assigned
INF	ORMATION DISCLOSU	JRE CITATION	APPLICANT Charles P. Norman	n et al.		
· · · · · · · · · · · · · · · · · · ·	(Use Several Sheets if Nece	FILING DATE HEREWITH	GROUP .	2634(	Parent)	
•	· .	U.S. PATENT	DOCUMENTS			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE
DV.	4,701,934	10/20/87	Jasper			
	4,754,465	06/28/88	Trimble			
	4,758,959	07/19/88	Thoone et al	·		
	4,796,191	01/03/89	Honey et al			·
	4,807,256	02/21/89	Holmes et al			
	4,847,862	07/11/89	Braisted et al			
	4,890,233	12/26/89	Ando et al		·	
	4,894,662	01/16/90	Counselman			
	4,910,526	03/20/90	Donnangelo et al			
	4,922,212	05/01/90	Roberts et al			
	4,928,106	05/22/90	Ashjaee et al			
	4,965,586	10/23/90	O'Neill et al		•	
	4,970,523	11/13/90	Braisted et al			
	5,043,736	08/27/91	Darnell et al			
	5,045,770	09/03/91	Brooks			
	5,075,694	12/24/91	Donnangelo et al			
	5,089,822	02/18/92	Abaunza et al			
	5,099,493	03/24/92	Zeger et al			
	5,101,416	03/31/92	Fenton et al		•	
	5,107,227	04/21/92	Brooks			_
	5,108,334	04/28/92	Eschenbach et al			
	5,109,344	04/28/92	Kakihara et al			
	5,111,150	05/05/92	Casey			-
DV.	5,119,101	. 06/02/92	Barnard			
EXAMINER	Div		DATE CONSIDERED 8/9/0	5	•	
EXAMINER In	nitial if reference considered, whether or n	ot citation is in conformance with MPEP 609.	Draw line through citation if not in conformance and r	not considered. Inc	lude copy of thi	s form with next

		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. SI RF. PO 15. US. C >	SERIAL N	0. M ot y e	assigned
		•	APPLICANT Charles P. Norman e		<u> </u>	`
IN.	FORMATION DISCLOSU (Use Several Sheets if Nêce		FILING DATE HEREWITH		36241	(0 - 4)
			HE KEWITH ,	·	46241	(Parent)
		. U.S. PATENT	DOCUMENTS			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE
dv.	5,134,407	07/28/92	Lorenz et al			
	5,144,318	09/01/92	Kishi		-	
	5,146,471	09/08/92	Cowart			
	5,148,179	09/15/92	Allison			
·	5,150,377	09/22/92	Vannucci			·
	5,153,583	10/06/92	Murdoch			
	5,157,697	10/20/92	Anvari et al			
	5,165,109	11/17/92	Han et al			
	5,173,715	12/22/92	Rodal et al			
	5,175,744	12/29/92	Crespo et al			
	5,187,450	02/16/93	Wagner et al	•		
	5,192,957	03/09/93	Kennedy			`
	5,196,743	03/23/93	Brooks			•
	5,202,694	04/13/93	Farmer et al			
	5,202,829	04/13/93	Geier			
	5,210,540	05/11/93	Masumoto			
	5,219,067	06/15/93	Lima et al			
	5,223,844	06/29/93	Mansell et al		•	
	5,225,842	07/06/93	Brown et al			
	5,239,669 <sup>.</sup>	08/24/93 <sup>.</sup>	Mason et al			
	5,247,469 -	09/21/93	McCune, Jr.			
	5,263,053	11/16/93	Wan et al			
	5,265,025	11/23/93	Hirata			
ďv.	5,266,948	11/30/93	Matsumoto			
EXAMINERAL	Dur		DATE CONSIDERED 8/9/05			
EXAMINER I	initial if reference considered, whether or no	a citation is in conformance with MPEP 609.	Draw line through citation if not in conformance and not co	msidered. In	ichade copy of th	nis form with next

·		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. SIRF POSSUS CO	SERIAL N	o. Not ye	Tassigned	
	FORMATION DISCLOSI	DE CITATION	APPLICANT Charles P. Norman et al.				
1147	(Use Several Sheets if Nece	FILING DATE HEREWITH	GROUP	2634(	(Parent)		
<del></del>		U.S. PATENT	DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE	
DV.	5,268,064	12/07/93	Woo et al			•	
	5,268,695	12/07/93	Dentinger et al				
	5,272,485	12/21/93	Mason et al				
	5,282,228	01/25/94	Scott et al				
	5,293,170	03/08/94	Lorenz et al				
	5,296,861	03/22/94	Knight				
	5,306,971	04/26/94	McCune			·	
	5,309,482	05/03/94	Wright et al				
	5,311,149 ~	05/10/94	Wagner et al		•	·	
	5,311,197	05/10/94	Sorden et al			•	
	5,313,069	05/17/94	Tham . Tr			•	
	5,313,457	05/17/94	Hostetter et al				
	5,313,490	05/17/94	Schramm et al				
1.	5,319,374	06/07/94	Desai et al				
	5,321,799	06/14/94	McCune, Jr.			•	
	5,323,152	06/21/94	Morita				
	5,323,322	06/21/94	Mueller			<u> </u>	
	5,329,549	07/12/94	Kawasaki			· · · · · · · · · · · · · · · · · · ·	
	5,334,974	08/02/94	Simms et al			•	
	5,337,243	08/09/94	Shibata et al				
<u> </u>	5,345,244	09/06/94	Gildea et al.				
	5,347,284	09/13/94	Volpi et al				
	5,347,536	09/13/94	Meehan .				
DV.	5,347,546	09/13/94	Abadi et al				
EXAMINER	Dw		DATE CONSIDERED $8/9/0$ .	5 .			
EXAMINER	initial if reference considered, whether or n	x citation is in conformance with MPEP 609.	Draw line through citation if not in conformance and not		nchide copy of t	his form with next	
communication with app	licant.				.,		

•		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. SIRF, POSS. 45.C>	SERIAL N	Motre	assigned
	NFORMATION DISCLOSU	DE CITATION	APPLICANT Charles P. Norman		<del>_</del> .·	
	(Use Several Sheets if Nace		FILING DATE HEREWITH	GROUP	2634(	(Parent)
		U.S. PATENT	DOCUMENTS			· · · · · ·
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE
W.	5,349,530	09/20/94	Odagawa	† · ·		
	5,353,348	10/04/94	Sendyk et al			
	5,355,140	10/11/94	Slavin et al			<del></del>
	5,365,192	11/15/94	Wagner et al			
	5,365,451	11/15/94	Wang et al			
	5,365,516	11/15/94	Jandrell			
	5,367,463	11/22/94	Tsuji			·
	5,375,059	12/20/94	·Kyrtsos et al			
	5,383,127	01/17/95	Shibata			
	5,390,124	02/14/95	Kyrtsos			
	5,390,207	02/14/95	Fenton et al			• (
	5,402,347	03/28/95	McBurney et al			
	5,402,450	03/28/95	Lennen			
	5,406,491	04/11/95	Lima			
	5,408,193	04/18/95	Rodal			
	5,412,660	05/02/95	Chen et al			
	5,412,687	05/02/95	Sutton et al	·		
	5,414,729	05/09/95	Fenton			·
	5,416,712	05/16/95	Geier et al			
	5,418,537	05/23/95	Bird			
	5,420,593	05/30/95	Niles			
	5,422,813	06/06/95	Schuchman et al			
	5,422,814	Ò6/06/95	Sprague et al			
.W.	5,422,816	06/06/95	Sprague et al			
EXAMINER	Am		DATE CONSIDERED 8/9/0	5		
EXAMINE I	lainal if reference considered, whether or ne	x citation is in conformance with MPEP 609.	Draw line through citation if not in conformance and not o	considered. In	clude copy of th	is form with next

		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE .	APPLICANT Charles P. Norman	•	, 1401 Seil	azcidni
INFO	ORMATION DISCLOSU (Use Several Sheets if Neces		FILING DATE HEREWITH		634(	Parent
<del></del>	· .	II S PATENT	DOCUMENTS		<del></del>	
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DA
DV.	5,422,917	06/06/95	Scott			
	5,424,953	06/13/95	Masumoto et al		:	
	5,430,654	07/04/95	Kyrtsos et al			
	5,432,803	07/11/95	Liu et al			
	5,432,841	07/11/95	Rimer			•
	5,432,859	07/11/95	Yang et al.			
	5,436,632	07/25/95	Sheynblat			
	5,448,773	09/05/95	McBurney et al			
.	5,450,344	09/12/95	Woo et al			
	5,450,448	09/12/95	Sheynblat			
	5,452,211	09/19/95	Kyrtsos et al			
	5,465,413	11/07/95	Enge et al			
	5,467,095	11/14/95	Rodal et al			
	5,469,360	11/21/95	Ihara et al			
	5,471,218	11/28/95	Talbot et al			(
	5,471,518	11/28/95	Barber et al			
	5,479,351	12/26/95	Woo et al			
	5,485,154	01/16/96	Brooks et al			•
	5,485,161	01/16/96	Vaughn		• .	
	5,485,163	01/16/96	Singer et al			
	5,486,834	01/23/96	Lennen			
1	5,490,076	02/06/96	Rawicz et al	<u> </u>		
dr.	5,493,588	02/20/96	Lennen			
MINER	DW		DATE CONSIDERED 8/9/3	5		

Form PTO-FB-A820 (also form PTO-1449)

·	·	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. SIRF. POAS, US.C.	SERIAL NO	Notye	azcigned
ייי	FORMATION DISCLOST	RE CITATION	APPLICANT Charles P. Norman et al.			
1111	(Use Several Sheets if Nece	FILING DATE HEREWITH GROUP 2634 (Parent				
		U.S. PATENT	DOCUMENTS			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE
DV.	5,493,694	02/20/96	Vlcek et al		••	
	5,495,257	02/27/96	Loomis			
	5,495,499	02/27/96	Fenton et al			
	5,504,491	04/02/96	Chapman			
	5,537,121	07/16/96	Lennen		•	
	5,537,323	07/16/96	Schulte	·		
	5,541,592	07/30/96	Shiihara			
	5,541,845	07/30/96	Klein			
	5,552,990	09/03/96	Ihara et al			
	5,572,218	11/05/96	Cohen et al			
	5,583,513	12/10/96	Cohen			
	5,604,732	02/18/97	Kim et al		•	
	5,610,815	03/11/97	Gudat et al			
	5,612,972	03/18/97	Fukushi et al			
	5,619,212	04/08/97	Counselman, III			
	5,640,416	06/17/97	Chalmers			
	5,675,608	10/07/97	Kim et al	,		
	5,689,252	11/18/97	Ayanoglu et al	·		
	5,724,384	03/03/98	Kim et al			
	5,729,571	03/17/98	Park et al			
	5,742,922	04/21/98	Kim			•
	5,781,152	07/14/98	Renard et al			
	5,790,549	08/04/98	Dent	·		
ðv.	5,793,818	08/11/98	Claydon et al			
EXAMINER	Dow		DATE CONSIDERED 8/9/0	5		
EXAMINER	Initial if reference considered, whether or n	ot citation is in conformance with MPEP 609.	Draw line through citation if not in conformance and no	t considered. In	clude copy of th	uis form with next
communication with app	licare.					

		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY, DOCKET NO. SIRF, POSS. US. C >	SERIAL N	o. Not ye	Tascigned
	INFORMATION DISCLOSU	IRE CITATION	APPLICANT Charles P. Norman	et al.	·	
	(Use Several Sheets if Nece		FILING DATE HEREWITH	GROUP	2634(	(Parent)
·		U.S. PATENT	DOCUMENTS			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB SZALD	FILING DATE IF APPLICABLE .
DV.	5,799,010	08/25/98	Lomp			
	5,828,694	10/27/98	Schipper		• •	
	5,897,605	04/27/99	Kohli et al			
	5,898,665	04/27/99	Sawahashi et al			
	5,901,171	05/24/99	Kohli et al			
	5,901,183	05/04/99	Garin			•
	5,903,654	05/11/99	Milton et al			
ð√.	6,018,704	01/25/00	Kohli et al			
				·		
						٠
		·				
		·				
		· .				
-						
			,	·		
•			,		•	
					•	
				,		
EXAMINER .	Div		date considered $8/9/05$			
EXAMINE:	R Initial if reference considered, whether or o	ot citation is in conformance with MPEP 609.	Draw line through citation if not in conformance and not	considered. In	nchude copy of th	is form with next

Please type a plus sign (+) inside this box	≯[∓
---	-----

Please type a plus sign (+) Inside this box 

+ Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 10 of 11

C mpl t if Known				
Application Number	not yet assigned			
Filing Date	HEREWITH			
First Named Inventor	Charles P. Norman			
Group Art Unit	2634 (parent app)			
Examiner Name	Amanda T. Le (Parent app)			
Attorney Docket Number	SIRF.P025.US.C2			

				U.S. PATENT DOCU	MENTS	
Examiner Initials*	Cite No.1	Number (it i	ment d Code <sup>2</sup> mown)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		<del>4,701,934</del>	-	JASPER	10-20-1987	
W.		5,604,503		Fowler et al	02-1997	
<b>b</b> V.		6,236,354		Krasner	05-2001	
		•				
					•	
						-

				FOR	EIGN PATENT DOCUMENT	S		
Examiner Initials*	No.1	Foreign Patent Document			Name of Patentee or	Date of Publication of	Pages, Columns, Lines,	
		Office:	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	Le
δν.		wo	98 18219	Α	Nokia Telecommunications	04-30-1998		
		-						╄┩
								+
								+-1
						ll		

miner ature	Date Considered	81	9/05	
ature	Consid	lered	lered 0/	lered 0/9/03

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box $\Longrightarrow$	+

11

Sheet

Signature

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0851-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Attorney Docket Number | SIRF.P025.US.C2

nder the Paperwork Reduction Act of 1995, no persons are required to res	spond to a collection of information	on unless it contains a valid OMB control number.	
Substitute for form 1449B/PTO	C mpl t If Known		
	Application Number	not yet assigned	
INFORMATION DISCLOSURE	Filing Date	HEREWITH	
STATEMENT BY APPLICANT	First Named Inventor	Charles P. Norman	
	Group Art Unit	2634 (parent app)	
(use as many sheets as necessary)	Examiner Name	Amanda T. Le (Parent app)	

Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),	T2
	Sust M. K. et al: "Code and frequency acquisition for fully digital CDMA-VSATs", Countdown to the New Millienium. Pheonix, Dec 2-5, 1991, Proceedings of GLOBECOM, N.Y., IEEE, US, vol. 3, 2 Dec. 1991. ISBN: 0-87942-697-7: page 499. rt col., lines 32-55.	
	·	
	Cite No.1	Cite No.¹ item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.  Sust M. K. et al: "Code and frequency acquisition for fully digital CDMA-VSATs", Countdown to the New Millienium. Pheonix, Dec 2-5, 1991, Proceedings of GLOBECOM, N.Y., IEEE, US, vol. 3, 2 Dec., 1991, ISBN: 0-87942-697-7; page 499, nt col., lines 32-55.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Consid red

<sup>1</sup> Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.